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## (54) OIL COMPOSITION FOR HYDROCARBON GAS COMPRESSOR

### (57)Abstract:

PROBLEM TO BE SOLVED: To obtain oil composition for a hydrocarbon gas compressor comprising a specific polyalkylene glycol derivative as a base oil, having a low solubility in a light hydrocarbon and water, capable of preventing a seizing and wearing by reducing the lowering of the viscosity and keeping the viscosity suitable.

SOLUTION: This oil composition for a compressing machine of a hydrocarbon gas is obtained by using a polyalkylene glycol having a chemical structure of formula I [R1 and R2 are each H or a 1-6C alkyl; EO is an oxyethylene group; OR is a 3-6C oxyalkylene group; (a) and (b) are each an integer and satisfy the formula  $5 \leq (a+b) \leq 1000$ ], having 5-100mm<sup>2</sup>/s kinetic viscosity at 100° C and satisfying the relation of formula II [X is the sum of the carbon numbers of the R1 and the R2 and 0-6; Y is a mole fraction of EO in the molecule and represented by  $[a/(a+b)] \times 100$ ] as a base oil.



$$10 \times X + 15 \leq Y \leq 10 \times X - 40$$

II

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